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Search Results - Record(s) 1 through 11 of 11 returned.

☐ 1. Document ID: US 20030217195 A1

Using default format because multiple data bases are involved.

L5: Entry 1 of 11

File: PGPB

Nov 20, 2003

PGPUB-DOCUMENT-NUMBER: 20030217195

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030217195 A1

TITLE: Method and apparatus for managing host-based data services using CIM

providers

PUBLICATION-DATE: November 20, 2003

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47 Mandal, Chhandomay Nashua NH US DaCosta, Jillian I. Nashua NH US Cao, Lanshan Andover MA US Pokigo, Roberta A. Billerica MA US

US-CL-CURRENT: <u>719/330</u>; <u>709/223</u>, <u>719/321</u>

| Full | Titl∈ | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWC | Drawi De |
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☐ 2. Document ID: US 20030204557 A1

L5: Entry 2 of 11

File: PGPB

Oct 30, 2003

PGPUB-DOCUMENT-NUMBER: 20030204557

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030204557 A1

TITLE: Method and apparatus for managing remote data replication using CIM

providers in a distributed computer system

PUBLICATION-DATE: October 30, 2003

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47

Mandal, Chhandomay Nashua NH US DaCosta, Jillian I. Nashua NH US

Cao, Lanshan

Andover

MA

US

Pokigo, Roberta A.

Billerica

MA

US

US-CL-CURRENT: 709/202; 707/204

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KWC Draw De

☐ 3. Document ID: US 20030172088 A1

L5: Entry 3 of 11

File: PGPB

Sep 11, 2003

PGPUB-DOCUMENT-NUMBER: 20030172088

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030172088 A1

TITLE: Method and apparatus for managing a data imaging system using CIM providers

in a distributed computer system

PUBLICATION-DATE: September 11, 2003

INVENTOR-INFORMATION:

NAME Mandal, Chhandomay DaCosta, Jillian I. Cao, Lanshan France, Jonathan C. Du, Yuantai

Pokigo, Roberta A.

CITY Nashua Nashua Andover

Nashua

Somerville

Billerica

NH MΑ MA NH MΑ

STATE

NH

US US US US

US

US

COUNTRY

RULE-47

US-CL-CURRENT: 707/200

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims 1000C Draw. De

☐ 4. Document ID: US 20030105840 A1

L5: Entry 4 of 11

File: PGPB

Jun 5, 2003

PGPUB-DOCUMENT-NUMBER: 20030105840

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030105840 A1

TITLE: Method and apparatus for managing configuration information in a distributed

computer system

PUBLICATION-DATE: June 5, 2003

INVENTOR-INFORMATION:

NAME

CITY

STATE

COUNTRY

RULE-47

Mandal, Chhandomay

Musante, Mark J.

Nashua

NH MA US

Wagener, Peter J. Pokigo, Roberta A.

Somerville Billerica MA MA

US US

US-CL-CURRENT: 709/220; 709/223

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw. De

☐ 5. Document ID: US 20030088713 A1

L5: Entry 5 of 11

File: PGPB

May 8, 2003

PGPUB-DOCUMENT-NUMBER: 20030088713

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030088713 A1

TITLE: Method and apparatus for managing data caching in a distributed computer

system

PUBLICATION-DATE: May 8, 2003

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47 Mandal, Chhandomay Nashua NH US Musante, Mark J. Westford ΜA US Wagener, Peter J. Somerville MA US DaCosta, Jillian I. Nashua NH US Pokigo, Roberta A. Billerica MA US

Andover

US-CL-CURRENT: 719/328

Goosey, Melora L.

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw. De

☐ 6. Document ID: US 20030084198 A1

L5: Entry 6 of 11

File: PGPB

MA

US

May 1, 2003

PGPUB-DOCUMENT-NUMBER: 20030084198

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030084198 A1

TITLE: Method and apparatus for managing data services in a distributed computer

system

PUBLICATION-DATE: May 1, 2003

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47

Mandal, Chhandomay Nashua NH US Musante, Mark J. Westford MA US Wagener, Peter J.

Somerville

MA

Pokigo, Roberta A. Goosey, Melora L.

Billerica Andover MA MA US US

US

US-CL-CURRENT: 719/316

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KWC Draw. De

7. Document ID: US 20030084116 A1

L5: Entry 7 of 11

File: PGPB

May 1, 2003

PGPUB-DOCUMENT-NUMBER: 20030084116

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030084116 A1

TITLE: Method and apparatus for discovering data services in a distributed computer

system

PUBLICATION-DATE: May 1, 2003

INVENTOR-INFORMATION:

NAME
Musante, Mark J.
Mandal, Chhandomay

Westford Nashua Arlington

CITY

MA NH MA MA

STATE

RULE-47

Newman, Howard A. Wagener, Peter J. Goosey, Melora L.

Pokigo, Roberta A.

Somerville Andover

Billerica

MA

MA

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US

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US

US

COUNTRY

US-CL-CURRENT: 709/217; 709/201, 709/203

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KWC Draws De

□ 8. Document ID: US 20030061399 A1

L5: Entry 8 of 11

File: PGPB

Mar 27, 2003

PGPUB-DOCUMENT-NUMBER: 20030061399

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030061399 A1

TITLE: Method and apparatus for managing data volumes in a distributed computer

system

PUBLICATION-DATE: March 27, 2003

INVENTOR-INFORMATION:

NAME

CITY

STATE

COUNTRY

RULE-47

Wagener, Peter J.

Somerville

MA

US

| Musante, Mark J. | Westford | MA | US |
|---------------------|------------|----|----|
| Mandal, Chhandomay | Nashua | NH | US |
| Goosey, Melora L. | Andover | MA | US |
| Pokigo, Roberta A. | Billerica | MA | US |
| Quill, George J. | Clinton | MA | US |
| Gratzer, Peter L. | Broomfield | CO | US |
| DaCosta, Jillian I. | Nashua | NH | US |
| France, Jonathan C. | Somerville | MA | US |
| | | | |

US-CL-CURRENT: <u>719/321</u>; <u>719/328</u>

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWWC | Draw, De |
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PGPUB-DOCUMENT-NUMBER: 20030061366

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030061366 A1

TITLE: Method and apparatus for managing data imaging in a distributed computer

system

PUBLICATION-DATE: March 27, 2003

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47 Musante, Mark J. Westford MA Mandal, Chhandomay US Nashua NH Wagener, Peter J. Somerville MA US Zhang, Lanshan Andover MA US Goosey, Melora L. Andover MA US Pokigo, Roberta A. Billerica MΑ US

US-CL-CURRENT: <u>709/230</u>; <u>709/237</u>

| Full Title | Citation Front | Review | Classification | Date | Referenc | e Sequences | Attachments | Claims | KWIC | Draw, De |
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PGPUB-DOCUMENT-NUMBER: 20030033327

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030033327 A1

TITLE: Method and apparatus for managing remote data replication in a distributed computer system

Record List Display Page 6 of 8

PUBLICATION-DATE: February 13, 2003

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47 Mandal, Chhandomay Nashua NH US Wagener, Peter J. Somerville US MA Musante, Mark J. Westford ΜA US DaCosta, Jillian I. Nashua NH US Zhang, Lanshan Andover ΜA US Pokigo, Roberta A. Billerica US MA

US-CL-CURRENT: 707/204

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWC | Draw, D |
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US-PAT-NO: 6772178

DOCUMENT-IDENTIFIER: US 6772178 B2

TITLE: Method and apparatus for managing remote data replication in a distributed computer system

DATE-ISSUED: August 3, 2004

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY Mandal; Chhandomay Nashua NH Wagener; Peter J. Somerville MA Musante; Mark J. Westford MA DaCosta; Jillian I. Nashua NH Zhang; Lanshan Andover ΜA Pokigo; Roberta A. Billerica MA

ASSIGNEE-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY TYPE CODE Sun Microsystems, Inc. Santa Clara CA 02

APPL-NO: 09/ 917145 [PALM]
DATE FILED: July 27, 2001

INT-CL: [07] $\underline{G06}$ \underline{F} $\underline{17/00}$

US-CL-ISSUED: 707/204; 707/10, 707/200, 709/217, 709/220, 709/223 US-CL-CURRENT: 707/204; 707/10, 707/200, 709/217, 709/220, 709/223

FIELD-OF-SEARCH: 707/10, 707/200, 707/204, 709/226, 709/201, 709/203, 709/217, 709/220, 709/232, 709/216, 711/202, 711/202

709/220, 709/223, 709/316, 711/162, 711/203, 714/5

Record List Display Page 7 of 8

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

| PAT-NO | ISSUE-DATE | PATENTEE-NAME | US-CL |
|----------------|----------------|-----------------|---------|
| 6002085 | December 1999 | Utsumi et al. | 174/28 |
| 6058401 | May 2000 | Stamos et al. | 707/201 |
| <u>6453326</u> | September 2002 | Parham et al. | 707/204 |
| 6571232 | May 2003 | Goldberg et al. | 707/2 |
| <u>6625613</u> | September 2003 | Thompson | 707/102 |
| 2003/0014432 | January 2003 | Teloh et al. | 707/204 |
| 2003/0014433 | January 2003 | Teloh et al. | 707/204 |
| 2003/0014523 | January 2003 | Teloh et al. | 709/226 |
| 2003/0033327 | February 2003 | Mandal et al. | 707/204 |
| 2003/0061399 | March 2003 | Wagener et al. | 709/321 |
| 2003/0074446 | April 2003 | Musante et al. | 709/224 |
| 2003/0084116 | May 2003 | Musante et al. | 709/217 |
| 2003/0084198 | May 2003 | Mandal et al. | 709/316 |
| 2003/0088713 | May 2003 | Mandal et al. | 709/328 |
| 2003/0105840 | June 2003 | Mandal et al. | 709/220 |
| | | | |

OTHER PUBLICATIONS

Kyeongho et al., "Scheduling of storage and cache servers for replicatied multimedia data", IEEE, pp. 484-487, 1997.*

Bhide et al., "Implicit replication in a network file server", IEEE, pp. 85-90.* Cai et al., A new medium access control for multi-channel Ad Hoc networks; IEEE, pp. 966-971.*

Makpangou et al., "Replicated directory service for weakly consistent distributed caches", ACN, pp1-9.*

Vason P. Srnin, "An architecture for extended abstract data flow", IEEE, pp. 303-325, 1981.

Madan et al., "A distributed real time database for heterogeneous computer controll systems", IEEE, pp. 435-440, 1995.

Pu et al., "Replica control in distributed systems", ACM, pp. 377-386, 1991.

ART-UNIT: 2171

PRIMARY-EXAMINER: Corrielus; Jean M.

ATTY-AGENT-FIRM: Kudirka & Jobse, LLP

ABSTRACT:

A three-tiered data replication management system is used on a distributed computer system connected by a network. The lowest tier comprises management <u>facade software</u> running on each machine that converts a platform-dependent interface written in low-level kernel routines that actually perform the data replication to platform-independent method calls. The middle tier is a set of <u>federated</u> Java beans, which communicate with each other, with the management facades, and with the upper tier of the system. The upper tier of the inventive system comprises presentation programs that can be directly manipulated by management personnel to view and control the system. The <u>federated</u> Java beans can run on any machine in the system

Record List Display Page 8 of 8

and communicate via the network. A data replication bean runs on each host and at least one such bean communicates directly with a management interface that is controlled by a user.

22 Claims, 18 Drawing figures

| Title Citation Front Review Classification Date Reference | Claims KWC |
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| API | 79964 |
| APIS | 7357 |
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Display Format: - Change Format

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Hit List

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Search Results - Record(s) 1 through 14 of 14 returned.

☐ 1. Document ID: US 20030217195 A1

Using default format because multiple data bases are involved.

L4: Entry 1 of 14

File: PGPB

Nov 20, 2003

PGPUB-DOCUMENT-NUMBER: 20030217195

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030217195 A1

TITLE: Method and apparatus for managing host-based data services using CIM

providers

PUBLICATION-DATE: November 20, 2003

INVENTOR-INFORMATION:

NAME STATE CITY COUNTRY RULE-47 Mandal, Chhandomay Nashua NH US DaCosta, Jillian I. Nashua NH US Cao, Lanshan Andover MA US Pokigo, Roberta A. Billerica MA US

US-CL-CURRENT: 719/330; 709/223, 719/321

| Full | | Citation | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Drawi De |
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☐ 2. Document ID: US 20030204557 A1

L4: Entry 2 of 14

File: PGPB

Oct 30, 2003

PGPUB-DOCUMENT-NUMBER: 20030204557

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030204557 A1

TITLE: Method and apparatus for managing remote data replication using CIM

providers in a distributed computer system

PUBLICATION-DATE: October 30, 2003

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47

Mandal, Chhandomay Nashua NH US DaCosta, Jillian I. Nashua NH US Cao, Lanshan Pokigo, Roberta A. Andover Billerica MA MA

US US

US-CL-CURRENT: 709/202; 707/204

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw. De

☐ 3. Document ID: US 20030172088 A1

L4: Entry 3 of 14

File: PGPB

Sep 11, 2003

PGPUB-DOCUMENT-NUMBER: 20030172088

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030172088 A1

TITLE: Method and apparatus for managing a data imaging system using CIM providers

in a distributed computer system

PUBLICATION-DATE: September 11, 2003

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47 Mandal, Chhandomay Nashua NH US DaCosta, Jillian I. Nashua NH US Cao, Lanshan Andover MA US France, Jonathan C. Somerville US MA Du, Yuantai Nashua NH US Pokigo, Roberta A. Billerica ΜA US

US-CL-CURRENT: 707/200

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims RMC Draw De

☐ 4. Document ID: US 20030105840 A1

L4: Entry 4 of 14

File: PGPB

Jun 5, 2003

PGPUB-DOCUMENT-NUMBER: 20030105840

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030105840 A1

TITLE: Method and apparatus for managing configuration information in a distributed

computer system

PUBLICATION-DATE: June 5, 2003

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47

Mandal, Chhandomay Nashua NH US Musante, Mark J. Westford MA US Wagener, Peter J.

Somerville

MA

Pokigo, Roberta A.

Billerica

MΑ

US US

US-CL-CURRENT: 709/220; 709/223

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw, De

☐ 5. Document ID: US 20030088713 A1

L4: Entry 5 of 14

File: PGPB

May 8, 2003

PGPUB-DOCUMENT-NUMBER: 20030088713

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030088713 A1

TITLE: Method and apparatus for managing data caching in a distributed computer

system

PUBLICATION-DATE: May 8, 2003

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47 Mandal, Chhandomay Nashua US NH Musante, Mark J. Westford MΆ US Wagener, Peter J. Somerville MA US DaCosta, Jillian I. Nashua NH US Pokigo, Roberta A. Billerica MA US Goosey, Melora L. Andover MA US

US-CL-CURRENT: 719/328

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KWC Draw, Do

☐ 6. Document ID: US 20030084198 A1

L4: Entry 6 of 14

File: PGPB

May 1, 2003

PGPUB-DOCUMENT-NUMBER: 20030084198

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030084198 A1

TITLE: Method and apparatus for managing data services in a distributed computer

system

PUBLICATION-DATE: May 1, 2003

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47

Mandal, Chhandomay Nashua NH US Musante, Mark J. Westford MA US Wagener, Peter J. Pokigo, Roberta A. Somerville Billerica

MA MA US US

Goosey, Melora L.

Andover

MA

US-CL-CURRENT: 719/316

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KMIC | Drave De |
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☐ 7. Document ID: US 20030084116 A1

L4: Entry 7 of 14

File: PGPB

May 1, 2003

PGPUB-DOCUMENT-NUMBER: 20030084116

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030084116 A1

TITLE: Method and apparatus for discovering data services in a distributed computer

system

PUBLICATION-DATE: May 1, 2003

INVENTOR-INFORMATION:

NAME Musante, Mark J. Mandal, Chhandomay Newman, Howard A. Wagener, Peter J. Goosey, Melora L.

CITY Westford

STATE MA

COUNTRY US

RULE-47

Nashua NH US Arlington MA US Somerville MA US Andover MA US Pokigo, Roberta A. Billerica MΆ US

US-CL-CURRENT: <u>709/217</u>; <u>709/201</u>, <u>709/203</u>

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw. De

□ 8. Document ID: US 20030061399 A1

L4: Entry 8 of 14

File: PGPB

Mar 27, 2003

PGPUB-DOCUMENT-NUMBER: 20030061399

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030061399 A1

TITLE: Method and apparatus for managing data volumes in a distributed computer

system

PUBLICATION-DATE: March 27, 2003

INVENTOR-INFORMATION:

NAME

CITY

STATE

COUNTRY

RULE-47

Wagener, Peter J.

Somerville

MA

US

| Musante, Mark J. | Westford | MA | US |
|---------------------|------------|----|----|
| Mandal, Chhandomay | Nashua | ИН | US |
| Goosey, Melora L. | Andover | MA | US |
| Pokigo, Roberta A. | Billerica | MA | US |
| Quill, George J. | Clinton | MA | US |
| Gratzer, Peter L. | Broomfield | CO | US |
| DaCosta, Jillian I. | Nashua | NH | US |
| France, Jonathan C. | Somerville | MA | US |

US-CL-CURRENT: <u>719</u>/<u>321</u>; <u>719</u>/<u>328</u>

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Drawe De |
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PGPUB-DOCUMENT-NUMBER: 20030061366

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030061366 A1

TITLE: Method and apparatus for managing data imaging in a distributed computer

system

PUBLICATION-DATE: March 27, 2003

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|--------------------|------------|-------|---------|---------|
| Musante, Mark J. | Westford | MA | us | |
| Mandal, Chhandomay | Nashua | NH | US | |
| Wagener, Peter J. | Somerville | MA | US | |
| Zhang, Lanshan | Andover | MA | US | |
| Goosey, Melora L. | Andover | MA | us | |
| Pokigo, Roberta A. | Billerica | MA | us | |

US-CL-CURRENT: <u>709/230</u>; <u>709/237</u>

| Full | Title Citatio | n Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KOMC | Drawe De |
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PGPUB-DOCUMENT-NUMBER: 20030033327

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030033327 A1

TITLE: Method and apparatus for managing remote data replication in a distributed computer system

PUBLICATION-DATE: February 13, 2003

INVENTOR-INFORMATION:

Record List Display

CITY COUNTRY RULE-47 NAME STATE Mandal, Chhandomay Nashua US NH Wagener, Peter J. Somerville MA US Musante, Mark J. Westford US MA DaCosta, Jillian I. Nashua US NH Zhang, Lanshan Andover MA US Pokigo, Roberta A. Billerica MA US

US-CL-CURRENT: 707/204

| Full Title | Citation Front | Review Classification | Date Refere | nce Sequences | Attachments | Claims | KWC | Draw, De |
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US-PAT-NO: 6772178

DOCUMENT-IDENTIFIER: US 6772178 B2

TITLE: Method and apparatus for managing remote data replication in a distributed

computer system

DATE-ISSUED: August 3, 2004

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY Mandal; Chhandomay Nashua NH Wagener; Peter J. Somerville MA Musante; Mark J. Westford MA DaCosta; Jillian I. Nashua NH Zhang; Lanshan Andover MA Pokigo; Roberta A. Billerica MA

ASSIGNEE-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY TYPE CODE Sun Microsystems, Inc. Santa Clara CA 02

APPL-NO: 09/ 917145 [PALM]
DATE FILED: July 27, 2001

INT-CL: [07] G06 F 17/00

US-CL-ISSUED: 707/204; 707/10, 707/200, 709/217, 709/220, 709/223 US-CL-CURRENT: 707/204; 707/10, 707/200, 709/217, 709/220, 709/223

FIELD-OF-SEARCH: 707/10, 707/200, 707/204, 709/226, 709/201, 709/203, 709/217,

709/220, 709/223, 709/316, 711/162, 711/203, 714/5

Record List Display Page 7 of 11

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

| PAT-NO | ISSUE-DATE | PATENTEE-NAME | US-CL |
|--------------|----------------|-----------------|---------|
| 6002085 | December 1999 | Utsumi et al. | 174/28 |
| 6058401 | May 2000 | Stamos et al. | 707/201 |
| 6453326 | September 2002 | Parham et al. | 707/204 |
| 6571232 | May 2003 | Goldberg et al. | 707/2 |
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Pu et al., "Replica control in distributed systems", ACM, pp. 377-386, 1991.

ART-UNIT: 2171

PRIMARY-EXAMINER: Corrielus; Jean M.

ATTY-AGENT-FIRM: Kudirka & Jobse, LLP

ABSTRACT:

A three-tiered data replication management system is used on a distributed computer system connected by a network. The lowest tier comprises management <u>facade software</u> running on each machine that converts a platform-dependent interface written in low-level kernel routines that actually perform the data replication to platform-independent method calls. The middle tier is a set of <u>federated</u> Java beans, which communicate with each other, with the management facades, and with the upper tier of the system. The upper tier of the inventive system comprises presentation programs that can be directly manipulated by management personnel to view and control the system. The <u>federated</u> Java beans can run on any machine in the system

Record List Display Page 8 of 11

and communicate via the network. A data replication bean runs on each host and at least one such bean communicates directly with a management interface that is controlled by a user.

22 Claims, 18 Drawing figures

Full Title Citation Front Review Classification Date Reference Claims KWC Draw Do

12. Document ID: US 20030217195 A1

L4: Entry 12 of 14 File: DWPI Nov 20, 2003

DERWENT-ACC-NO: 2004-021910

DERWENT-WEEK: 200402

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TITLE: Data service managing method for distributed computer system, involves running management <u>facade software</u> having common information model client in server to control provider, and federated bean

INVENTOR: CAO, L; DACOSTA, J I ; MANDAL, C ; POKIGO, R A

PRIORITY-DATA: 2002US-0147275 (May 16, 2002)

PATENT-FAMILY:

 PUB-NO
 PUB-DATE
 LANGUAGE
 PAGES
 MAIN-IPC

 US 20030217195 A1
 November 20, 2003
 025
 G06F009/46

INT-CL (IPC): G06 F 9/46

ABSTRACTED-PUB-NO: US20030217195A

BASIC-ABSTRACT:

NOVELTY - The method involves running a common information model (CIM) provider (718) in a host computer system to organize a driver software for data service. A management <u>facade software</u> with a CIM client is run in a server to control the provider. A <u>federated</u> bean generates method calls to the software. Data service commands from a management terminal are provided to the bean to control the provider to organize the service.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

- (a) an apparatus for managing a data service in a distributed computer system
- (b) a computer program product for managing a data service in a distributed computer system.

USE - Used for managing a data service in a distributed computer system.

ADVANTAGE - The server management $\underline{\text{facade software}}$ controls the CIM provider so as to eliminate the log in of the provider into each host system.

DESCRIPTION OF DRAWING(S) - The drawing shows a block diagram demonstrating the illustration of a simple data replication system using the principles of a data service managing method.

Record List Display Page 9 of 11

Management server system 702

Webserver 704

Federated beans 706

Management facade 708

CIM provider 718

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☐ 13. Document ID: US 20030204557 A1

L4: Entry 13 of 14

File: DWPI

Oct 30, 2003

DERWENT-ACC-NO: 2003-900773

DERWENT-WEEK: 200382

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TITLE: Remote data replication management method in distributed computer system, involves running $\underline{\text{federated}}$ bean in management server to control common information model providers

INVENTOR: CAO, L; DACOSTA, J I ; MANDAL, C ; POKIGO, R A

PRIORITY-DATA: 2002US-0134711 (April 29, 2002)

PATENT-FAMILY:

 PUB-NO
 PUB-DATE
 LANGUAGE
 PAGES
 MAIN-IPC

 US 20030204557 A1
 October 30, 2003
 035
 G06F017/30

INT-CL (IPC): G06 F 12/00; G06 F 15/16; G06 F 17/30

ABSTRACTED-PUB-NO: US20030204557A

BASIC-ABSTRACT:

NOVELTY - A management <u>facade software</u> running in management server, includes a common information model (CIM) client (424), for controlling CIM providers of CIM objects running in respective host devices (406). A <u>federated</u> bean running in server, controls the CIM providers, to configure storage devices for data replications, based on data replication commands from management terminal.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

- (1) apparatus for managing remote data replication;
- (2) remote data replication management program; and
- (3) computer data signal for managing remote data replication.

USE - For managing remote data replication in distributed computer system.

ADVANTAGE - The storage devices for data replication are easily configured by controlling the CIM providers.

Record List Display Page 10 of 11

DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of the data replication system.

logic tier 402

host device 406

CIM client 424

data replication graphical user interface 446

proxy 448

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | Claims | KWIC | Draw, De |
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| L4: E | ntry | 14 of | 14 | | | | File: | DWPI | Mav | 1, | 2003 |

DERWENT-ACC-NO: 2003-606081

DERWENT-WEEK: 200357

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TITLE: Data service management method for distributed computer system, involves controlling data passing between driver software and database and retrieving data service attributes, by management facades using proxy for Java bean

INVENTOR: GOOSEY, M L; MANDAL, C ; MUSANTE, M J ; POKIGO, R A ; WAGENER, P J

PRIORITY-DATA: 2001US-0021471 (October 30, 2001)

PATENT-FAMILY:

 PUB-NO
 PUB-DATE
 LANGUAGE
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 MAIN-IPC

 US 20030084198 A1
 May 1, 2003
 023
 G06F009/46

INT-CL (IPC): G06 F 9/46

ABSTRACTED-PUB-NO: US20030084198A

BASIC-ABSTRACT:

NOVELTY - Management <u>facade software</u> is executed in host (200) to control data passing between driver software and database, and to retrieve data service attributes. Each <u>federated</u> Java bean (230,234) is executed to generate commands to management facades (240,244). Lookup service is used to obtain proxy to each Java bean. Data is controlled and attributes are retrieved by management facades using proxy, in response to commands.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

- (1) data service managing apparatus; and
- (2) computer program product for managing data service.

USE - For managing data services such as replication, mirroring, scheduling, logging, transaction, control and data snapshots in distributed computer system

Record List Display Page 11 of 11

connected to Internet.

ADVANTAGE - By providing the management facades, the data services can be managed from a single location.

DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of the data service management system.

host 200

federated Java beans 230,234

management facades 240,244

| Full | Title Citation Front Review Classification Date Reference State Control of Co | Claims K | MC Draw, D |
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| | Term | Documents |] |
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| | FEDERATEDS | 0 | |
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| | (L1 AND (FEDERATED)).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD. | 14 | |

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